CENOZOIC — QUATERNARY

QTg — Unconsolidated sand and gravel including alluvium and Gila conglomerate.

UNCONFORMITY

MESOZOIC — CRETACEOUS

Kbs — Bisbee Group –
Undifferentiated shales, sandstones, and quartzites.

Kbl — Bisbee Group – Blue limestone,
medium to thin beds of blue gray, fossiliferous limestone containing some of the largest and richest orebodies including much of the production from the Randolph, Mamie and Bonanza mines.

Kbn — Bisbee Group – Novaculite,
fine grained quartzite containing some limestone and conglomerate containing limestone pebbles in conglomerate. The lower part of the Vizena, the Quarry and Girard rolls, and the middle part of the Chino stope were in the novaculite.

Kb — Undifferentiated Bisbee sediments

UNCONFORMITY

PALEOZOIC — PERMIAN — PERMO PENNSYLVANIAN

Pcn — **Naco Group –**
subdivided into the Horquilla limestone, Earp formation, Colina limestone and Epitaph dolomite. The Horquilla limestone is generally medium grained crinoidal, light gray weathering to pink with beds ranging from 8 inches to 6 feet thick. The Earp formation consists of interbedded thin shaly limestones and red shales commonly cross-bedded and cherty. The Colina limestone is massive black to dark gray **limestone** in beds 2 to 4 feet thick. The Epitaph dolomite is commonly crystalline, black to dark gray, buff, yellow or pink thin bedded. The Colina limestone and Epitaph dolomite contain many of the large replacement ore bodies in the Tombstone District. The Luck Sure and Lucky Cuss ore zones occurred in the Epitaph dolomite. The Oregon-Promptu orebodies occurred in the Colina limestone.

DISCONFORMITY

MISSISSIPPIAN

Escabrosa Limestone –
thick bedded, light gray, dense, microcrystalline.

DISCONFORMITY

DEVONIAN — UPPER

Dm — Martin Limestone –
The basal units consist of no more than 10 feet of gray limestone interbedded with soft gray shale overlain by hard dark gray shale with infrequent intercalated sandy beds.

DISCONFORMITY

CAMBRIAN — UPPER

Ca — Abrigo Limestone – replacement
thin bedded, impure, and partly cherty rusty brown limestone with interbedded sandstone and shale and topped by 4 to 5 feet of vitreous white quartzite. The Emerald Mine produced from a fissure in the Abrigo and Bolsa.

MIDDLE

Cb — Bolsa Quartzite –
hard, cross-bedded, fine grained to pebbly rust brown rock in beds up to 6 feet thick containing well rounded, pea size pebbles throughout.

UNCONFORMITY

PRECAMBRIAN

Pinal Schist –
gray, metamorphosed sedimentary rock consisting mostly of quarts and sericite with minute quantities of biotite and green hornblende. The rock has a fine grained texture, is brittle and moderately fissile.

Xpcog — Albite (?) – Granodiorite
dark gray to pink-gray, extremely friable, slightly gneissic, medium grained generally equigranular rock except for poikilitic orthoclase phenocrysts. The major constituents are quartz, orthoclase, albitized plagioclase and biotite. Sericite has replaced part of the plagioclase. Post crystallization shearing has resulted in a cataclastic texture.

QTv — Walnut Gulch olivine basalt and other young volcanics.

Tg — Andesite flow breccia –
gray, greenish gray, or pinkish gray volcanic mud flows

Tap — Andesite porphyry dikes –
gray to greenish gray dyke rock containing plagioclase phenocrysts and less frequently hornblende in an aphanitic groundmass.

TKus — Uncle Sam quartz latite porphyry –
gray to pinkish gray quartz latite containing phenocrysts of quartz, plagioclase, biotite and hornblende.

Trp — Rhyolite porphyry sills and dykes –
pale pink, aphanitic groundmass.

TKs — Schieffelin granodiorite –
light gray, slightly porphyritic granodiorite to quartz monzonite. Dykes related to the Schieffelin made ore along the Contention Dyke, Boss Dyke, Empire Dyke, Sulfuret Dyke, and Tribute Dyke.

60 — Fissure, showing strike and dip

79 — Fault, showing dip; dashed where probable dotted where inferred

Geologic contact

Anticline

Overturned anticline

63 — Strike and dip of flow banding in volcanic rocks

52 — Strike and dip of fractures

31 — Strike and dip of bedding in sediments

goes to Hulbe map